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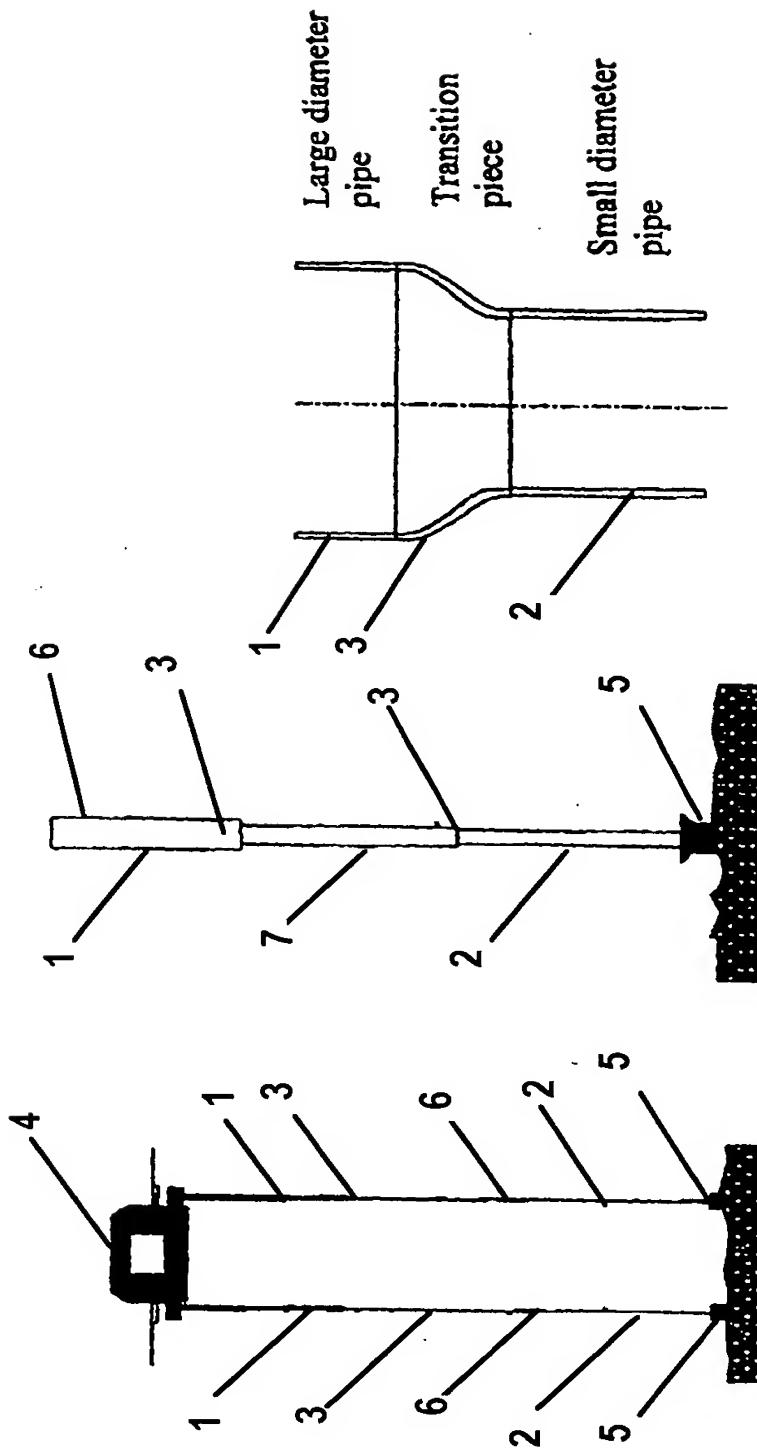


Figure 1:
TLP with tethers

Figure 2:
Tether string

Figure 3:
Diameter transition

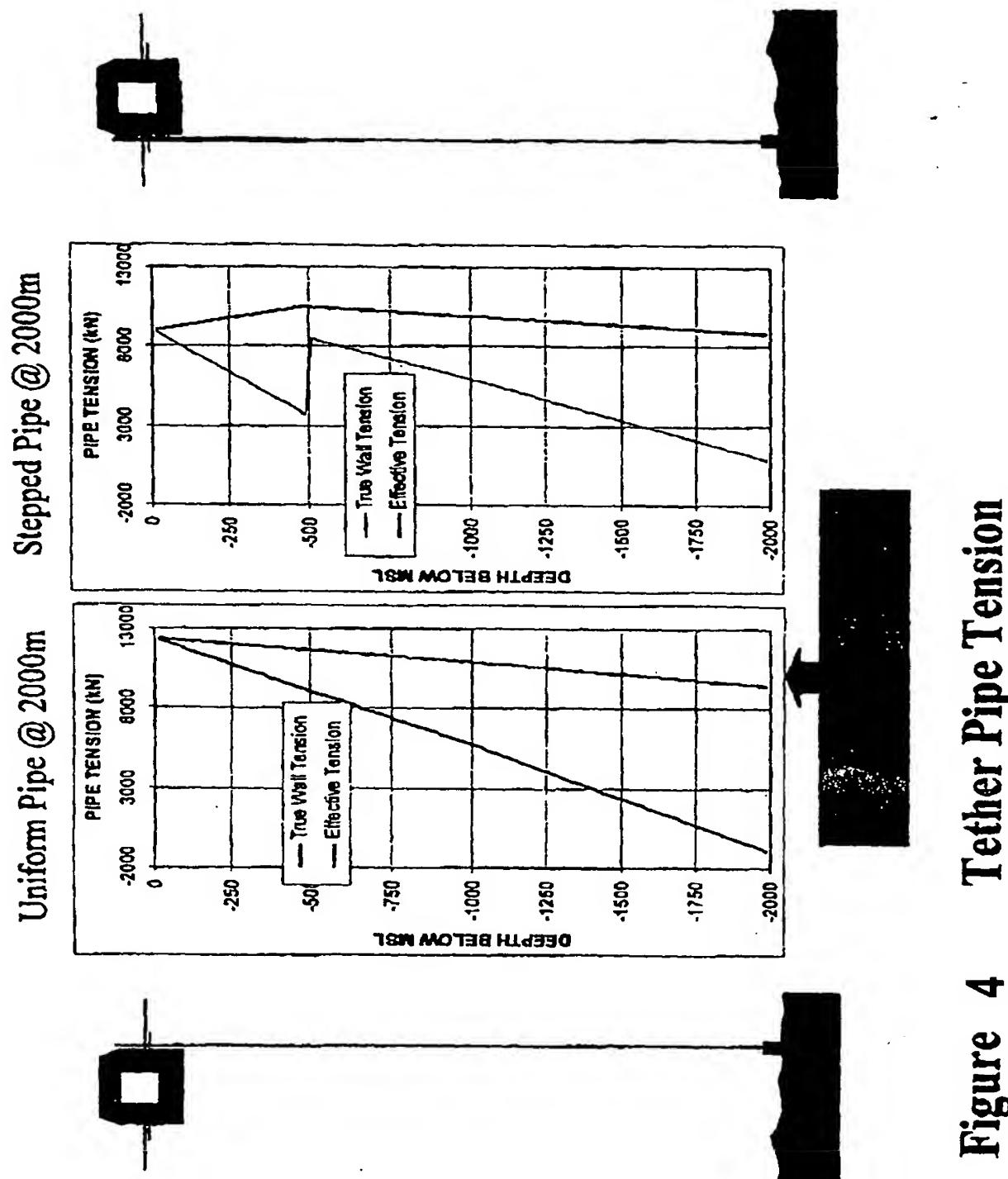
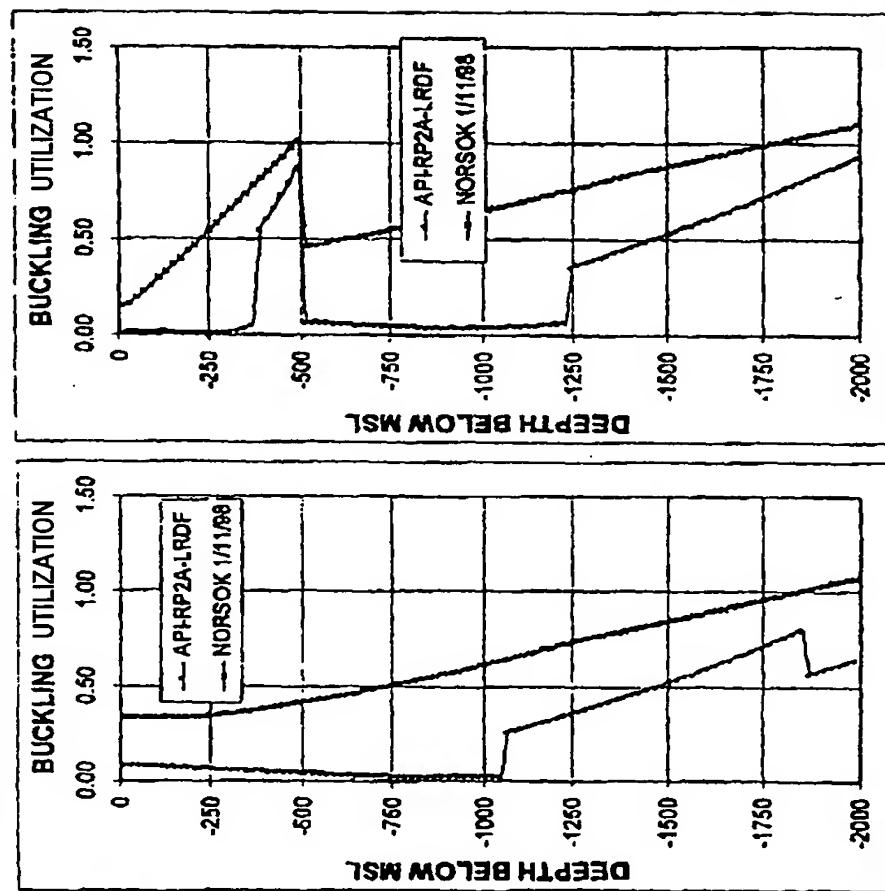


Figure 4 Tether Pipe Tension

Stepped Pipe @ 2000m

Uniform Pipe @ 2000m



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Figure 5 Tether Pipe Utilization

OPTIMIZATION

1. Direction of increased buoyancy
2. Direction of increased stiffness
3. Direction of increased hydrostatic capacity

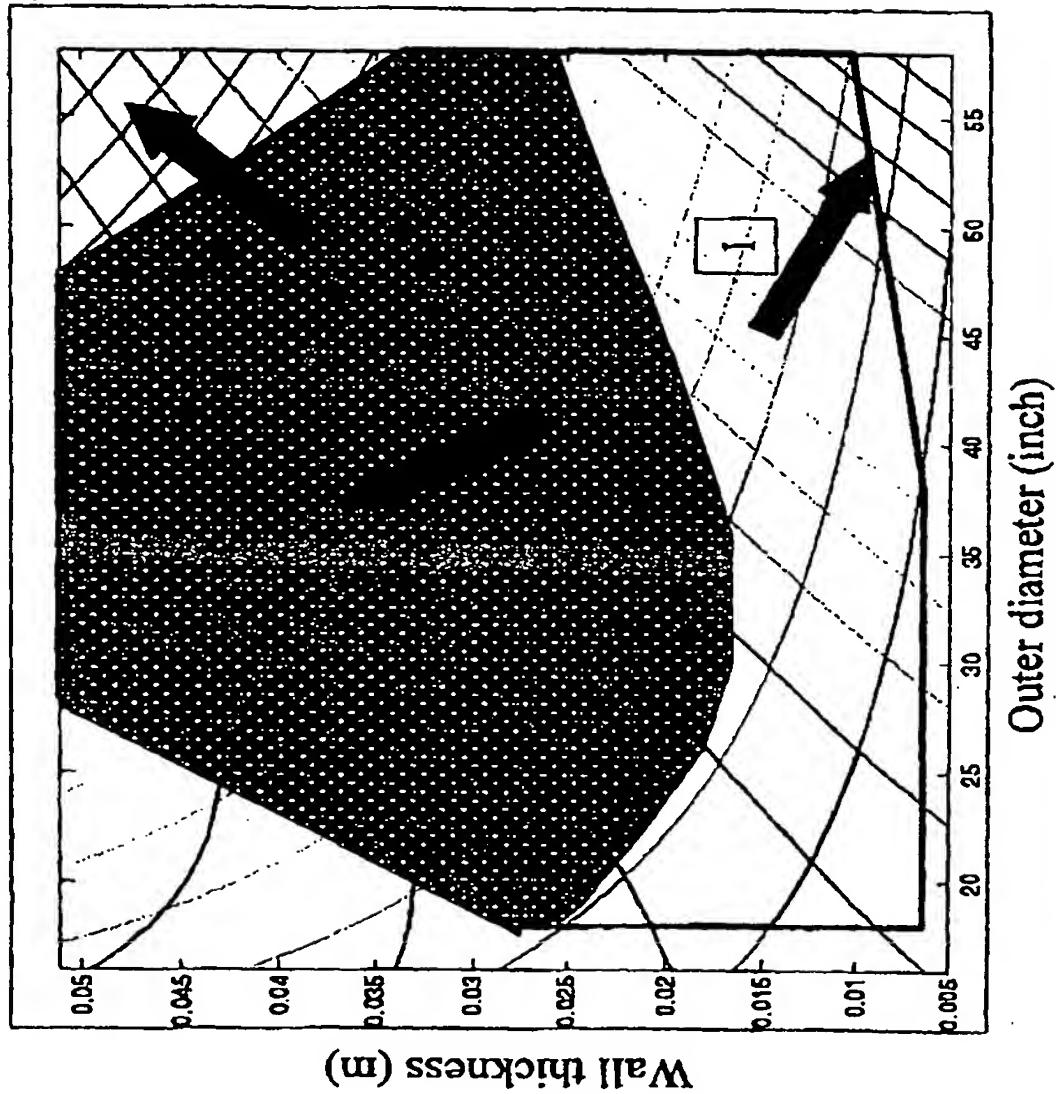


Figure 6: Optimization chart